

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Currently Amended) A mobile communication system including a location management agent for conducting a new location registration and a registration update of a mobile station in a prescribed service area, ~~said mobile communication~~ the system comprising:

schedule notifying means for sending a moving schedule information of said mobile station at a particular time in advance from said mobile station to said location management agent ~~in advance~~; and

a location registration database provided in said location management agent for registering ~~[[the]]~~ said moving schedule information about ~~[[the]]~~ said mobile station in said prescribed service area which information includes said particular time and a scheduled destination location registration area at said particular time, wherein said location management agent is arranged to update a location registration area of said mobile station in said prescribed service area at said particular time with reference to said location registration database, wherein

said location registration database is arranged to register said moving schedule information about said mobile station, and

each location registration area in said prescribed service area includes a resource management agent for managing a number of its radio channels, and said resource management is arranged to adaptively control the number of radio channels to be assigned to said location registration area in said prescribed service area in response to a command sent from said location management agent in accordance with said moving schedule information registered in said location registration database

~~at the particular time such that the moving schedule information has correspondence with a scheduled destination location registration area, wherein~~

~~said location management agent, referring to said location registration database, updates the location registration area of the mobile station in the prescribed service area at the particular time.~~

Claim 2. (Original) The mobile communication system as claimed in claim 1, wherein

said schedule notifying means includes schedule managing means installed in said mobile station, and said schedule managing means notifies said location management agent of the moving schedule information automatically.

Claims 3 and 4. (Cancelled).

Claim 5. (Currently Amended) A location registration method of a mobile station in a mobile communication system including a location management agent for conducting a new location registration and a registration update of the mobile station in a prescribed service area,

said location registration method of a mobile station in a mobile communication system comprising:

a first step of sending a moving schedule information of said mobile station at a particular time in advance from said mobile station to said location management agent ~~in advance~~;

a second step of registering, in a location registration database provided in said location management agent, ~~[[the]]~~ said moving schedule information about ~~[[the]]~~ said mobile station in ~~correspondence with the~~ said prescribed service area which information includes said particular time and a scheduled destination location registration area at ~~[[the]]~~ said particular time;

a third step of updating ~~[[the]]~~ a location registration area of ~~[[the]]~~ said mobile station in ~~[[the]]~~ said prescribed service area at ~~[[the]]~~ said particular time by said location management agent with ~~referring reference~~ reference to said location registration database, wherein

said location registration database is arranged to register said moving schedule information about said mobile station, and

each location registration area in said prescribed service area includes a resource management agent for managing a number of its radio channels, and said resource management is arranged to adaptively control the number of radio channels to be assigned to said location registration area in said prescribed service area in response to a command sent from said location management agent in accordance with said moving schedule information registered in said location registration database.

Claim 6. (Original) The location registration method of a mobile station in a mobile communication system as claimed in claim 5, wherein

the first step notifies said location management agent of the moving schedule information automatically by schedule managing means installed in said mobile station.

Claim 7. (Cancelled).

Claim 8. (Currently Amended) A recording medium recording a computer readable program of a location registration method of a mobile station in a mobile communication system including a location management agent for conducting a new location registration and a registration update of the mobile station in a prescribed service area,

said program causes a computer to execute:

a first step of sending a moving schedule information of said mobile station at a particular time in advance from said mobile station to said location management agent ~~in advance~~;

a second step of registering, in a location registration database provided in said location management agent, ~~[[the]]~~ said moving schedule information about ~~[[the]]~~ said mobile station in ~~correspondence with the~~ said prescribed service area which information includes said particular time and a scheduled destination location registration area at ~~[[the]]~~ said particular time; and

a third step of updating ~~[[the]]~~ a location registration area of ~~[[the]]~~ said mobile station in ~~[[the]]~~ said prescribed service area at ~~[[the]]~~ said particular time by said location management agent with ~~referring~~ reference to said location registration database, wherein

said location registration database is arranged to register said moving schedule information about said mobile station, and

each location registration area in said prescribed service area includes a resource management agent for managing a number of its radio channels, and said resource management

is arranged to adaptively control the number of radio channels to be assigned to said location registration area in said prescribed service area in response to a command sent from said location management agent in accordance with said moving schedule information registered in said location registration database.

Claim 9. (Original) The recording medium as claimed in claim 8, wherein
the first step of said program notifies said location management agent of the moving
schedule information automatically by schedule managing means installed in said mobile station.

Claim 10. (Cancelled).